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NOTICE OF ALLOWANCE AND FEE(S) DUE

28848 7590 08/27/2008 TOPE-MCKAY & ASSOCIATES 23852 PACIFIC COAST HIGHWAY #311 EXAMINER

VO, HUYEN X

ART UNIT PAPER NUMBER

2626 DATE MAILED: 08/27/2008

23852 PACIFIC COAST HIGHWAY #31 MALIBU, CA 90265

MALIBO, CA 3020

 APPE.ICATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTRIBATION NO.

 10/728,106
 12/03/2003
 Shubha Kadambe
 HRL132
 7282

TITLE OF INVENTION: METHOD AND APPARATUS FOR FAST ON-LINE AUTOMATIC SPEAKER/ENVIRONMENT ADAPTATION FOR SPEECH/SPEAKER RECOGNITION IN THE PRESENCE OF CHANGING ENVIRONMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/28/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off ions.	or trans	smitting the ISSU atent, advance or in Block 1, by (a					nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Not Fee pap hav	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
28848	7590 08/27						of Mailing or Transı	nission
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								(Signature)
								(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVE		NTOR ATTORNEY		RNEY DOCKET NO.	CONFIRMATION NO.
10/728,106	12/03/2003		Shubha Kadamb		HRL132		HRL132	7282
TITLE OF INVENTION SPEECH/SPEAKER RE				ON-LINE AUTOMAT NG ENVIRONMENTS	IC SPEAKER/EN	VIRO	NMENT ADAPTATI	ON FOR
APPLN, TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	SFEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	11/28/2008
EXAMINER			ART UNIT	CLASS-SUBCLASS				
VO, HU	YEN X		2626	704-216000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignee is ident in 37 CFR 3.11. Com	nge of C " Indica led. Use	Correspondence tion form of a Customer	2. For printing on the p (1) the names of up te or agents OR, alternati (2) the name of a single registered attorney or 2 registered patent attorney or 2 registered patent attorney or 1 registered patent attorney or 2 registered patent attorney or 3 registered patent attorney or 3 registered patent attorney or 3 registered patent attorney or 4 registered patent attorney or 5 registered patent attorney or 5 registered patent attorney or 6 registered patent attorney or 6 registered patent or 7 registe	3 registered paten rely, e firm (having as a sgent) and the nam meys or agents. If printed. ee) step in the first patents are a second patents are a sign assignment.	memb es of u no nam	er a 2p to p to se is 3	ocument has been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual Co	orporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 authorized to char	is atta	ched. required fee(s), any de	
	SMALL ENTITY state	ıs. See 3	37 CFR 1.27.	b. Applicant is no lon				
interest as shown by the r	Publication Fee (if req ecords of the United Sta	uired) w ites Pate	rill not be accepted int and Trademark	office.	he applicant; a regi	stered a	ittorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/728,106	12/03/2003	Shubha Kadambe	HRL132	7282	
28848 75	590 08/27/2008		EXAM	IINER	
TOPE-MCKAY	& ASSOCIATES	VO, HUYEN X			
23852 PACIFIC COAST HIGHWAY #311			ART UNIT	PAPER NUMBER	
MALIBU, CA 902	265		2626		

DATE MAILED: 08/27/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 805 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 805 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/728,106	KADAMBE ET AL.	
Examiner	Art Unit	Т
HUYEN X. VO	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/3/2008. 2. The allowed claim(s) is/are 1-123.

- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1.

 Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08). Pacer No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6 Interview Summery (PTO-413) Paper No./Mail Date
- T Examiner's Amendment/Comment
- Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

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Art Unit: 2626

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-123 are allowed over prior art of record. The following is an examiner's statement of reasons for allowance: Murveit et al. disclose a method and system for fast on-line automatic speaker/environment adaptation suitable for speech/speaker recognition in the presence of changing environmental conditions, the method comprising acts of: performing front-end processing on an acoustic input signal, wherein the front-end processing generates MEL frequency cepstral features representative of the acoustic input signal (see reference); performing recognition and adaptation by: providing the MEL frequency cepstral features to a speech recognizer, wherein the speech recognizer utilizes the MEL frequency cepstral features and a current list of acoustic training models to determine at least one best hypothesis (referring to reference); receiving, from the speech recognizer, at least one best hypothesis, associated acoustic training models, and associated probabilities (common in speech recognizer); computing a pre-adaptation acoustic score by recognizing an utterance using the associated acoustic training models; choosing acoustic training models from the associated acoustic training models; choosing the best hypothesis as recognized words once the acoustic score ceases to improve; and outputting the recognized words (referring to reference). Murveit et al. fail to specifically disclose computing a postadaptation acoustic score by recognizing the utterance using the adapted acoustic training models; comparing the pre-adaptation acoustic score with the post-adaptation acoustic score to check for improvement; modifying the current list of acoustic training

Application/Control Number: 10/728,106

Art Unit: 2626

models to include the adapted acoustic training models, if the acoustic score improved after performing adaptation; performing adaptation on the chosen associated acoustic training models; and performing recognition and adaptation iteratively until the acoustic score ceases to improve;. Furthermore, it would have not been obvious to one of ordinary skill in the art at the time of invention to modify Murveit et al. in order to obtain the claimed invention. Therefore, claims 1-123 are allowed over prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUYEN X. VO whose telephone number is (571)272-7631. The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Huyen X Vo/ Examiner, Art Unit 2626 8/16/2008

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